

**MISSOURI HAZARDOUS WASTE MANAGEMENT FACILITY PERMIT  
PART I  
PERMIT NUMBER: MOR000504456**

**PERMITTEE**

Owner: H.T.R., Incorporated  
415 Kaiser Industrial Drive  
Kaiser, MO 65047

Operator: H.T.R., Incorporated  
415 Kaiser Industrial Drive  
Kaiser, MO 65047

**FACILITY LOCATION**

415 Kaiser Industrial Drive  
Kaiser, MO 65047  
Miller County  
North Latitude – 38°08'161"  
West Longitude – 92°35'126"

**FACILITY DESCRIPTION**

H.T.R., Inc., receives universal waste fluorescent bulbs as a universal waste destination facility. The bulbs are recycled to recover the mercury, glass, and scrap metal. This facility will store fluorescent bulbs and mercury containing calcium phosphate powder under this permit.

**PERMITTED ACTIVITIES**

The facility is permitted to store hazardous wastes in containers related to the receipt and processing of fluorescent bulbs. The Permit also contains contingent corrective action conditions to address releases to the environment from Solid Waste Management Units and/or Areas of Concern as necessary and appropriate.

H.T.R., Incorporated  
Kaiser, Missouri  
MOR000504456  
Page 2, Part I

EFFECTIVE DATES OF PERMIT: \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Doyle Childers, Director  
DEPARTMENT OF NATURAL RESOURCES

DRAFT

## TABLE OF CONTENTS

INTRODUCTION .....	4
DEFINITIONS .....	8
SCHEDULE OF COMPLIANCE .....	10
SUBMITTAL OF REQUIRED INFORMATION .....	12
STANDARD PERMIT CONDITION .....	13
GENERAL PERMIT CONDITIONS .....	13
SPECIAL PERMIT CONDITIONS .....	14
I.    Storage in Containers [40 CFR Part 264 Subpart I] .....	14
II.   Waste Minimization .....	17
III.  Seismic Evaluation Requirements [10 CSR 25-7.270(2)(B)4.] .....	18
IV.   Trailer Staging .....	18
CORRECTIVE ACTION CONDITIONS .....	19
I.    Identification of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) [40 CFR 264.101] .....	19
II.   Notification Requirements for, and Assessment of, Newly Identified SWMU(s) and AOCs .....	19
III.  Notification Requirements for, and Assessment of, Newly Identified Releases From Previously Identified SWMUs and AOCs .....	21
IV.   Interim/Stabilization Measures .....	24
V.    RCRA Facility Investigation (RFI) Work Plan .....	24
VI.   RCRA Facility Investigation (RFI) Report .....	26
VII.  Corrective Measures Study (CMS) Work Plan .....	28
VIII. Corrective Measures Study (CMS) Report .....	29
IX.   Final Remedy Approval .....	30
X.    Annual Progress Reports .....	30
XI.   Supplemental Data .....	31
XII.  Financial Assurance for Corrective Action .....	31
XIII. Review and Approval Procedures .....	33
XIV.  Contingent and Planned Activities .....	33
XV.   Submittal of Required Information .....	34
FACILITY SUBMISSION SUMMARY .....	35

## INTRODUCTION

After public notice, according to 10 CSR 25-8.124, and review of the H.T.R., Incorporated's Resource Conservation and Recovery Act Part B Permit Application, (hereafter referred to as the Application), the Missouri Department of Natural Resources (hereafter referred to as the Department) has determined that the application substantially conforms to the provisions of the Missouri Hazardous Waste Management Law (and all standards, rules, and regulations adopted under this act), Section 260.350, et seq., RSMo. Pursuant to Section 260.375 (13), RSMo, the Department hereby approves the application and issues Permit Number MOR000504456 to H.T.R., Inc., (hereafter referred to as the Permittee) for the construction and operation of the hazardous waste facility as set forth in the application and this Permit. This Permit also addresses corrective action requirements for solid waste management units. Applicable regulations are found in 40 CFR Parts 124, 260 through 264, 266, 268, and 270, and in 10 CSR 25-7 as specified in this Permit. Part I of this Permit is issued under state authority, and Part II is issued under federal authority. Part I of this Permit shall remain in effect even if Part II is terminated or has expired.

The Permit application that was submitted by the Permittee March 2004 and the updated habitual violator information submitted in March 2005 will hereafter be referred to as the "approved Permit application." The "approved Permit application," along with any additional documents to be submitted under the Schedule of Compliance Item I.A. are defined as the "consolidated Permit application."

Any inaccuracies found in information submitted may be grounds for the termination, revocation and re-issuance, or modification of this Permit in accordance with 40 CFR Part 270 Subpart D, incorporated by reference in 10 CSR 25-7.270(1) and modified in 10 CSR 25-7.270(2)(D), and for potential enforcement action. The Permittee shall inform the Department of any deviation from, or changes in, the information in the application, which would affect the Permittee's ability to comply with the applicable regulations or Permit conditions.

When the Department receives any information (such as inspection results, information from the Permittee, or requests from the Permittee) it may decide whether cause exists to modify, revoke and reissue, or terminate a facility's permit. All such changes to the Permit will be in accordance with 10 CSR 25-7.270(2)(D), 10 CSR 25-8, and 40 CFR Part 270 Subpart D, as incorporated by reference in 10 CSR 25-7.270(1).

All Permit application information shall be available to the public unless nondisclosure is requested in writing as set forth in Section 260.430, RSMo and 10 CSR 25-7.270(2)(B)2. The Permit and accompanying material will be available for review by the public at the Department's central office in Jefferson City, Missouri, the United States Environmental Protection Agency

(EPA), Region VII, office in Kansas City, Kansas, and the Camden County Public Library, Osage Beach, Missouri.

The Permittee's hazardous waste facility is located at 415 Kaiser Industrial Drive in Kaiser, Missouri. The Permittee is permitted to operate the container storage facility as specified in this Permit.

Construction and operation of this hazardous waste facility and corrective action shall be in accordance with the provisions of this Permit, the Missouri Hazardous Waste Management Law (Sections 260.350 to 260.434, RSMo), the rules and regulations promulgated thereunder [Code of State Regulations, Title 10, Division 25 (10 CSR 25)] as effective on the date of this Permit, all the final engineering plans, petitions, specifications, and operating procedures which were submitted to the Department during the Permit application review process and which are included in the final version of the Permit application, which is hereby approved by the Department, and any other conditions, changes, or additions to the plans, specifications, and procedures as specified in this Permit. The consolidated Permit application, which includes engineering plans, specifications and operating procedures, is therefore incorporated into the conditions of this Permit. All conditions specified in this Permit supersede any conflicting information in the consolidated Permit application. Where conflicts arise between documents, the latest revision shall be effective.

The Permittee shall comply with all applicable environmental laws and regulations enforced by the Department. These environmental requirements are administered by the Air Pollution Control Program, the Hazardous Waste Program, the Land Reclamation Program, the Solid Waste Management Program, and the Water Protection Program. Failure to comply with these environmental laws, in certain circumstances, may result in the suspension or revocation of this Permit and may subject the Permit holder to civil and criminal liability.

This Permit for operational, closure, and corrective action activities is issued only to the Permittee named above. This Permit is issued for a period of ten years and expires at midnight on \_\_\_\_\_. This Permit is subject to review and modification by the Department in accordance with Section 260.395.12, RSMo.

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby. All citations to federal regulations throughout this Permit are for the sake of convenient reference. The federal regulations are adopted by reference in 10 CSR 25. In the instances where state regulations are more stringent, the appropriate state reference is given and shall apply.

Any appeal of the issuance or denial of a permit or specific permit conditions based on state authority shall be filed in accordance with Sections 260.395.11 and 621.250, RSMo. The appeal shall be filed with the Administrative Hearing Commission within 30 days after the permit decision is mailed or within 30 days of the permit decision being delivered, whichever is earlier.

If the petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the Administrative Hearing Commission.

40 CFR 264.101(a), as incorporated by reference in 10 CSR 25-7.264(1), requires all owners or operators of facilities seeking a permit for the treatment, storage, or disposal of hazardous waste to institute corrective action as necessary to protect human health and the environment for all releases of hazardous waste or hazardous constituents from any Solid Waste Management Unit, regardless of the time at which waste was placed in such unit.

40 CFR 264.101(b), as incorporated by reference in 10 CSR 25-7.264(1), requires that permits issued under the Hazardous Waste Management Law, contain a schedule of compliance for corrective action (where corrective action cannot be completed prior to Permit issuance) and assurances of financial responsibility for completing such corrective action.

40 CFR 264.101(c), as incorporated by reference in 10 CSR 25-7.264(1), requires that corrective action be taken by the facility owner or operator beyond the facility property boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates that, despite the owner/operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action.

Further, 40 CFR 264.101(c), as incorporated by reference in 10 CSR 25-7.264(1), stipulates that the owner/operator is not relieved of any responsibility to cleanup a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. In addition, assurances of financial responsibility for completing such corrective action must be provided.

40 CFR 270.32(b)(2), as incorporated by reference in 10 CSR 25-7.270(1), and Section 260.395.12, RSMo, requires that each Permit issued under that section contain terms and conditions as the Department determines necessary to protect human health and the environment.

On July 6, 1999, Missouri received final authorization for revisions to its hazardous waste management program, including the corrective action portion of the Hazardous and Solid Waste Amendments of 1984 Codification Rule (July 15, 1985, 50 FR 28702) which had been previously adopted by the state. Thus, the corrective action requirements implemented by the

H.T.R., Incorporated  
Kaiser, Missouri  
MOR000504456  
Page 7, Part I

state in lieu of the EPA are incorporated into Part I of this Permit and are under state authority. Authority for other Hazardous and Solid Waste Amendments requirements for which the state is not authorized is retained by EPA and appear in Part II of the Permit.

DRAFT

## DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as those in Resource Conservation and Recovery Act (RCRA) and 40 CFR Parts 124, 260, 261, 264, 266, 268, and 270, and 10 CSR 25, unless this Permit specifically provides otherwise. Where terms are not defined in RCRA, the regulations, the permit, or the United States Environmental Protection Agency guidance or publications, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

"Area of Concern" means any area where an actual or potential release of hazardous waste or hazardous constituents which is not from a Solid Waste Management Unit has occurred or is occurring and is determined by the Department to pose a current or potential threat to human health or the environment. Investigation and/or remediation of AOCs may be required pursuant to Section 260.395, RSMo, and 40 CFR 270.32(b)(2), as incorporated by reference in 10 CSR 25-7.270(1).

"Director" means the Director of the Missouri Department of Natural Resources.

"Facility" means:

"All contiguous land and structures, other appurtenances, and improvements on the land used for treating, storing, or disposing hazardous waste."

"All contiguous property under the control of the owner/operator, for the purpose of implementing corrective action under 40 CFR 264.101, as incorporated by reference in 10 CSR 25-7.264(1) and as specified in Corrective Action Conditions I. through XV. of this Permit."

"Hazardous constituent" means any chemical compound listed in 40 CFR Part 261 Appendix VIII as incorporated in 10 CSR 25-4.261.

"Hazardous waste" means any waste, or combination of wastes as defined by or listed in 10 CSR 25-4, which because of its quantity, concentration, physical, chemical, or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or which may pose a threat to the health of humans or other living organisms.

"Release" means any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of hazardous wastes (including hazardous



constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents).

"Solid Waste Management Unit" means any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released.

"Stabilization" means actions to control or abate threats to human health and/or the environment from releases at RCRA facilities and/or to prevent or minimize the further spread of contamination while long-term remedies are pursued.

DRAFT

## SCHEDULE OF COMPLIANCE

- I. Within 60 calendar days after the effective date of this Permit, the Permittee shall:
  - A. Submit to the Department two copies of the consolidated Permit application as required by 10 CSR 25-7.270(2)(B)7. This consolidated Permit application shall include the following:
    1. The "approved Permit application," as defined in the Introduction of this Permit.
    2. All changes made to the application as a result of the public comment period.
    3. The Permittee shall submit a "to scale" and "as built" drawing of the three container storage areas as a revision of the drawing titled "Floor Plan - Kaiser, MO Facility" as part of the consolidated Permit application. The drawing shall show rows and aisle spacing. An independent professional engineer registered in Missouri shall certify this drawing.
  - B. Submit to the Department a certification by the Permittee that the Permittee has read the Permit in its entirety and understands all Permit conditions contained herein.
  - C. Submit to the Department a check or money order payable to the State of Missouri for any outstanding engineering review costs.
  - D. Submit to the Department a check or money order payable to the State of Missouri for \$1000 for each year the Permit is to be in effect beyond the first year. This Permit is effective for ten years. Since the Permittee has submitted a check for \$1000 with the Resource Conservation and Recovery Act Permit application, the remaining balance to be submitted by the Permittee is \$9000 for this ten-year Permit.
- II. The Permittee shall update the facility's financial assurance instrument to reflect the cost estimate in the approved Permit application within 60 calendar days after the effective date of this Permit. The Permittee shall submit the updated financial assurance instrument to the Department for approval within 15 days of securing the instrument.

- III. The Permittee shall comply, as necessary, with all corrective action requirements of this Permit as specified in the contingent Corrective Action Conditions section of this Permit, and as summarized on Table IV attached hereto.
- IV. The Permittee shall submit plans for a security fence for the active portion of the facility within 60 calendar days after the effective date of this Permit.
- V. The Permittee shall construct a security fence around the active portion of the facility within one calendar year of the effective date of this Permit.
- VI. The Permittee shall update the financial assurance instrument to include the maximum number of bulbs allowed to be staged in parking lot trailers within one calendar year of the effective date of this Permit. At draft issuance, the allowed number of trailers was 50, per Special Permit Condition IV.

DRAFT

#### SUBMITTAL OF REQUIRED INFORMATION

- I. The Permittee shall submit three copies of all reports, documents, plans/specifications, and consolidated Permit application required under the terms of this Permit to:

Chief, Permits Section  
Missouri Department of Natural Resources  
Hazardous Waste Program  
1738 E. Elm Street (lower level)  
P.O. Box 176  
Jefferson City, MO 65102-0176

- II. The Permittee shall submit two copies of all reports, documents, or plans/specifications required under the terms of this Permit to:

Chief, RCRA Corrective Action and Permits Branch  
United States Environmental Protection Agency, Region VII  
Air, RCRA and Toxics Division  
901 North 5<sup>th</sup> Street  
Kansas City, KS 66101

#### STANDARD PERMIT CONDITION

- I. The Permittee shall comply with the requirements set forth in the Missouri Hazardous Waste Management Law (and all standards, rules, and regulations adopted under this act), Section 260.350, et seq., RSMo, 40 CFR Part 264 Subpart H, 40 CFR 270.30, 40 CFR 270.40, 40 CFR 270.42, and 40 CFR 270.51, as incorporated and modified in 10 CSR 25-7 and 10 CSR 25-8.

#### GENERAL PERMIT CONDITIONS

- I. The Permittee shall comply with the requirements set forth in 40 CFR Part 264 Subpart B, 40 CFR Part 264 Subpart C, 40 CFR Part 264 Subpart D, 40 CFR Part 264 Subpart E, 40 CFR Part 264 Subpart H, 40 CFR Part 268, and 40 CFR Part 270, as incorporated and modified in 10 CSR 25-7, and 10 CSR 25-8.

- II. Notification of an Emergency Situation [Chapter 260.505.4, RSMo]

The Permittee shall at the earliest practical moment upon discovery of an emergency involving the hazardous waste under the Permittee's control, notify the Department's emergency response hotline at (573) 634-2436 and the National Response Center at 1-800-424-8802.

## SPECIAL PERMIT CONDITIONS

The Department has established the following additional Permit conditions for the Permittee's hazardous waste facility.

### I. Storage in Containers [40 CFR Part 264 Subpart I]

Three container storage areas are permitted, the Process Building Calcium Phosphate Powder Storage Area, the Warehouse Building Intact Lamp Storage Area, and the Warehouse Building Crushed Lamp Storage Area. These units are subject to the requirements of 40 CFR Part 264 Subpart I and are permitted to store only hazardous waste related to the receipt and processing of fluorescent lamps.

#### A. Waste Identification

The Permittee shall store in containers only the hazardous wastes identified below. All stored wastes are subject to the terms of this Permit.

D009	A solid waste that exhibits the characteristic of toxicity, that if using the test methods described at 40 CFR 261.24 contains a mercury concentration greater than 0.2 milligram per liter.
------	--

#### B. Waste Quantities

The Permittee shall store only the following quantities of hazardous wastes in containers according to this Permit:

1. Storage of hazardous waste in the Process Building Calcium Phosphate Powder Storage Area shall not exceed twenty 55-gallon drum equivalents. The Permittee shall not store any wastes that contain free liquids in this area. This area is 12'2" by 5'10".
2. Storage of hazardous waste in the Warehouse Building Intact Lamp Storage Area shall not exceed the lesser of 300,000 fluorescent bulbs or 48,190 cubic feet. The Permittee shall not store any wastes that contain free liquids in this area. This location is 79' by 61' and 10' in height.
3. Storage of hazardous waste in the Warehouse Building Crushed Lamp Storage Area shall not exceed forty 55-gallon drums. The Permittee shall

not store any wastes that contain free liquids in this area, except mercury contaminated water (from housekeeping/mopping) in a secondary containment unit. This area is 25' by 5' and 10' in height.

C. Condition of Containers [40 CFR 264.171]

1. If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects, water damaged cardboard, or fiber) or if it begins to leak, the Permittee shall transfer the hazardous waste from the container to a container that is in good condition or manage the waste in some other way that complies with the conditions of this Permit, such as over-packing.
2. During the entire on-site storage period, containers storing hazardous wastes shall be labeled and marked in accordance with the applicable, currently-effective United States Department of Transportation regulations regarding hazardous materials, 49 CFR Part 172, except as noted.
3. Broken glass from bulbs in any storage area shall be cleaned up, by procedures in the approved Permit application, within eight hours of discovery. Access to any area of broken glass from bulbs shall be restricted until the release is remedied. A spill of mercury containing calcium phosphate powder, in any location, must be responded to and cleaned up immediately upon discovery, utilizing procedures in the approved Permit application.
4. Intact Lamps in the Warehouse Building Intact Lamp Storage Area may continue to be marked and labeled as a universal waste, without a hazardous waste label, but the start date that they are placed into storage and a control number which corresponds to the manifest for the bulbs shall be attached firmly to the lamps on a temporary sign as described in the approved Permit application. This temporary sign shall be visible from the aisle.

D. Compatibility of Waste with Containers [40 CFR 264.172]

1. The Permittee shall use a container that is made of, or lined with, materials which will not react with and are otherwise compatible with the hazardous waste to be stored so that the ability of the container to contain the waste is not impaired.

2. Only United States Department of Transportation approved containers shall be used for storage of hazardous waste on-site. Only those containers discussed in the approved Permit application shall be used.

E. Management of Containers [40 CFR 264.173]

1. A container holding hazardous waste shall always be closed during storage, except when it is necessary to count, weigh, add, or remove waste. A container holding hazardous waste shall not be opened, handled, or stored in a manner that may rupture the container or cause it to leak or spill. Containers holding bulbs that are a hazardous waste shall not be stored in a manner that may cause bulbs to break.
2. For the Process Building Calcium Phosphate Powder Storage Area, the Permittee shall store containers in a manner that ensures physical stability and allows for visual inspection of each container and each container's label, except for visual inspection of containers not containing free liquids where container size prohibits the inspection of center containers when palletized, provided the outermost containers are clearly labeled as to the number of containers on the pallet.
3. Storage of hazardous waste in the Warehouse Building Intact Lamp Storage Area shall be in a manner that ensures physical stability and allows for a visual inspection of each aisle facing container and each aisle facing container's temporary sign. Containers may be placed such that center containers within rows may not be inspected, where container size prohibits the inspection of center containers.
4. Storage of hazardous waste in the Warehouse Building Intact Lamp Storage Area shall be in rows no more than two pallets wide, with two feet of aisle space in between each row for inspection of the containers and their labels.
5. Storage of hazardous waste in the Process Building Calcium Phosphate Powder Storage Area and Warehouse Building Crushed Lamp Storage Area shall be in rows no more than two containers wide, stacked no more than two high, with two feet of aisle space in between each row.



F. Inspections [40 CFR 264.174]

At least weekly and according to the schedules in the approved Permit application, the Permittee shall inspect areas where containers are stored, looking for leaking containers, broken bulbs, and for deterioration of containers caused by water or other factors. This inspection shall be documented in the facility operating record.

G. Staging [10 CSR 25-7.264(2)(A)3.]

A container holding hazardous waste shall not be staged, stored, or managed in an area not addressed by this Permit for a period that exceeds 24 hours.

H. Special Requirements for Incompatible Waste [40 CFR 264.177]

1. The Permittee shall not place incompatible wastes or materials in the same container unless such action is in compliance with the requirements of 40 CFR 264.17(b).
2. The Permittee shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material.

I. Closure [10 CSR 25-7.264(2)(G)]

At closure, the Permittee shall remove all hazardous waste and hazardous waste residues from the container storage areas and containment systems and close in accordance with the Closure Plan in the approved Permit application for the hazardous waste management facility. If the Permittee is unable to close according to the Closure Plan, then the Permittee must submit a permit modification to the Department in accordance with 40 CFR 270.42.

II. Waste Minimization

Pursuant to 40 CFR 264.73(b)(9), the facility operating record shall contain a certification by the Permittee, made no less often than annually, that the Permittee has a program in place to reduce the volume and toxicity of hazardous waste that he generates to the degree determined by the Permittee to be economically practicable; and the proposed method of treatment, storage, or disposal is that practicable method currently available to the Permittee which minimizes the present and future threat to human health and the environment.

III. Seismic Evaluation Requirements [10 CSR 25-7.270(2)(B)4.]

The Permittee has demonstrated compliance with the seismic requirements. The Permittee shall maintain the seismic evaluation in the operating record.

IV. Trailer Staging

The Permittee shall stage containerized waste bulbs and containerized crushed bulbs received on-site in trailers for no more than 30 calendar days. No more than 50 trailers shall be staged on-site at any one time. For trailer counting purposes: a 53' trailer is one trailer, a 28' "Pup" trailer counts as 1/2 of a trailer, and a 28' "Box" truck counts as 1/2 of a trailer. Trailers with waste bulbs inside of them shall remain locked while being staged and maintained in a condition to ensure that hazardous waste is not released to the environment. Before the construction of the security fence, as required by Schedule of Compliance Items IV. and V., the trailers shall be inspected at least daily to determine that they are locked, to ensure that no hazardous constituents and hazardous waste is being released to the environment while being staged; a record of the inspection shall be kept in the facility operating record. After the construction of the security fence, the security inspection is no longer required. Schedule of Compliance Item VI. must be complied with regarding financial assurance for staged trailers within one calendar year.

## CORRECTIVE ACTION CONDITIONS

### I. Identification of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) [40 CFR 264.101]

A Resource Conservation and Recovery Act (RCRA) facility assessment has not yet been completed for H.T.R., Inc. Because the facility was built on an uncontaminated site, the only SWMUs presently identified are the two active storage areas and one mercury containing calcium phosphate powder storage area in the warehouse building undergoing closure during the approval process of this permit. No AOCs have presently been identified.

- A. The Permittee shall complete a RCRA facility assessment within five years of the effective date of this permit per 40 CFR 270.14(d)(3) or at the initiation of closure of the facility (whichever comes first). The RCRA facility assessment shall be prepared using the most recent version of RCRA Facility Assessment Guidance, USEPA. This guidance may be found electronically on the Internet at <http://www.epa.gov/epaoswer/hazwaste/ca/resource/guidance/sitechar/rfaguid.pdf>.

### II. Notification Requirements for, and Assessment of, Newly Identified SWMU(s) and AOCs

- A. The Permittee shall notify the Department and the United States Environmental Protection Agency (EPA) in writing of any SWMU(s) or AOC(s) identified subsequent to the issuance of this Permit no later than 15 days after discovery.
- B. The Department may require a SWMU/AOC Assessment Work Plan for conducting an investigation of any existing or newly identified SWMU(s) or AOC(s). Within 30 days after receipt of the Department's request for a SWMU/AOC Assessment Work Plan, the Permittee shall submit a SWMU/AOC Assessment Work Plan which shall include a discussion of past waste management practices at the unit, as well as a sampling and analysis program for groundwater, land surface and subsurface strata, surface water and/or air, as necessary to determine whether a release of hazardous waste, including hazardous constituents, from such unit(s) has occurred, or is occurring. The sampling and analysis program shall be capable of yielding representative samples and must include monitoring parameters sufficient to assess the release of hazardous waste and/or hazardous constituents from the newly identified SWMU(s)/AOC(s) to the environment. The SWMU/AOC Assessment Work Plan shall specify any data to

be collected to provide for a complete SWMU/AOC Assessment Report, as specified below, and shall contain a schedule for implementation of the work plan which is predicated on the date of Departmental approval of the plan.

- C. The SWMU/AOC Assessment Work Plan will be reviewed in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. The Permittee shall complete implementation in accordance with the schedule contained in the approved plan.
- D. The Permittee shall submit a SWMU/AOC Assessment Report to the Department and the EPA according to the schedule specified in the approved SWMU/AOC Assessment Work Plan. The SWMU/AOC Assessment Report shall present and discuss the information obtained from implementation of the approved SWMU/AOC Assessment Work Plan. At a minimum, the SWMU/AOC Assessment Report shall provide the following information for each newly identified SWMU/AOC:
  - 1. The location of the newly identified SWMU/AOC in relation to other SWMUs/AOCs;
  - 2. The type and function of the unit;
  - 3. The general dimensions, capacities, and structural description of the unit;
  - 4. The period during which the unit was operated;
  - 5. The physical and chemical properties of all wastes that have been or are being managed at the SWMU/AOC, to the extent available;
  - 6. The results of any sampling and analysis conducted;
  - 7. Past and present operating practices;
  - 8. Previous uses of the area occupied by the SWMU/AOC;
  - 9. Amounts of waste handled; and
  - 10. Drainage areas and/or drainage patterns near the SWMU(s)/AOC(s).

- E. The Department will review the SWMU/AOC Assessment Report in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. Based on the findings of this report, the Department will determine the need for further investigations, including stabilization or a RCRA Facility Investigation (RFI), at specific unit(s) identified in the SWMU/AOC Assessment Report.
  - F. If the Department determines that additional investigations are needed, the Department may require the Permittee to prepare and submit for approval a work plan for such investigations. The Department will review this work plan for additional investigations in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. The Permittee shall complete implementation in accordance with the schedule contained in the approved plan.
- III. Notification Requirements for, and Assessment of, Newly Identified Releases From Previously Identified SWMUs and AOCs
  - A. The Permittee shall notify the Department and the EPA, in writing, no later than 15 days after discovery, or after discovery should have been made of any newly identified release(s) of hazardous waste, including hazardous constituents from previously identified SWMUs and/or AOCs, discovered during the course of groundwater monitoring, field investigation, environmental auditing, or other activities undertaken after issuance of this Permit.
  - B. The Department may require a Newly Identified Release Work Plan for conducting an investigation of the newly identified release(s). Within 30 days after receipt of notice that the Department requires a Newly Identified Release Work Plan, the Permittee shall submit a Newly Identified Release Work Plan which shall include a discussion of the waste/chemical management practices related to the release; a sampling and analysis program for groundwater, land surface and subsurface strata, surface water, or air, as necessary to determine whether the release poses a threat to human health or the environment; and a proposed schedule for implementation and completion of the Newly Identified Release Work Plan. The sampling and analysis program shall be capable of yielding representative samples and must include monitoring parameters sufficient to assess the release of hazardous waste and/or hazardous constituents to the environment. The Newly Identified Release Work Plan shall identify any data to be collected to provide for a complete Newly Identified Release Report, as

specified below and shall contain a schedule for implementation of the work plan which is predicated on the date of Departmental approval of the plan.

- C. The Department will review the Newly Identified Release Work Plan in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. The Permittee shall initiate and complete implementation of the plan and in accordance with the schedule contained in the approved plan.
- D. The Permittee shall submit a Newly Identified Release Report to the Department and the EPA according to the schedule specified in the approved Newly Identified Release Work Plan. The Newly Identified Release Report shall present and discuss the information obtained during implementation of the approved Newly Identified Release Work Plan. At a minimum, the report shall provide the following information for each newly identified release:
1. The location of the newly identified release in relation to other SWMU(s);
  2. The general dimensions of the release;
  3. The period during which the release is suspected to have occurred;
  4. The physical and chemical properties of all wastes that have been determined to comprise the release;
  5. The results of any sampling and analysis conducted;
  6. Past and present operating practices near and at the location of the release;
  7. Previous uses of the area(s) occupied near and at the location of the release;
  8. Amounts of waste handled near and at the location of the release; and
  9. Drainage areas and/or drainage patterns near and at the location of the release.
- E. The Department will review the Newly Identified Release Report in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. Based on the findings of the report and any other available information, the Department will determine the need for further

investigation, including stabilization, an RFI, and/or a Corrective Measures Study (CMS).

DRAFT

IV. Interim/Stabilization Measures

- A. If the Permittee becomes aware of a situation that may require interim/stabilization measures to protect human health or the environment, the Permittee shall notify the Department and the EPA within 24 hours of the time the Permittee becomes aware or should have become aware of the situation.
- B. If during the course of any activity initiated under this Permit, the Permittee or the Department determines that a release or potential release of hazardous waste, including hazardous constituents, poses a threat to human health or the environment, the Department may require interim/stabilization measures to slow or stop the further spread of contamination until final corrective action measures can be implemented. The Department will determine the specific action(s) that must be taken to implement interim/stabilization measures, including potential Permit modifications and the schedule for implementing the interim/stabilization requirements and will inform the Permittee of decisions regarding the action(s) in writing. This requirement shall not preclude the Permittee from responding to an emergency situation without direction of the Department.
- C. If, at any time, the Permittee determines or should have known that the interim/stabilization measures program is not effectively limiting or stopping the further spread of contamination, the Permittee shall notify the Department in writing no later than ten days after such a determination is made. The Department may require that the interim/stabilization measures program be revised to make it effective in limiting or stopping the spread of contamination; or that final corrective action measures are required to remediate the contaminated media.
- D. In cases where releases present minimal exposure concerns and/or the remedial solution is straightforward, the Permittee may propose interim/stabilization measures for review and approval by the Department. These interim/stabilization measures shall be consistent with and may supplement and/or satisfy the requirements for a final remedy(s) in specific areas.

V. RCRA Facility Investigation (RFI) Work Plan

- A. If the Department determines that additional investigations are needed, the Department may require the Permittee to prepare and submit for approval an RFI Work Plan. The Permittee shall submit an RFI Work Plan to the Department and the EPA within 60 days of the notification of the requirement to conduct an RFI Work Plan. The RFI Work Plan shall be designed to investigate releases of hazardous waste, including hazardous constituents, to all appropriate media of



concern including soil, sediment, bedrock, groundwater, surface water, and/or air. In order to substantiate future corrective action decisions, the RFI Work Plan shall contain provisions which are sufficient to meet the following objectives and shall contain a schedule for implementation of the work plan which is predicated on the date of Departmental approval of the plan:

1. Full characterization of the nature, vertical and horizontal extent, and rate of migration of releases of hazardous waste and/or hazardous constituents from SWMUs and AOCs, or groups of SWMUs at the facility and the actual or potential receptors of such releases; and
  2. Collection of any other pertinent data that may be utilized to substantiate future corrective action decisions.
- B. The RFI Work Plan shall be appropriate for site-specific conditions and shall be consistent with and address all applicable investigation elements described in the most recent version (currently May 1989) of the EPA guidance document entitled, RCRA Facility Investigation Guidance; USEPA 530/SW-89-031. At a minimum, the RFI Work Plan shall detail all proposed activities and procedures to be conducted at the facility, a description of current conditions, the schedule for implementing and completing such investigations, and for submission of reports (including the final RFI Report), the qualifications of personnel performing or directing the investigations, including contractor personnel, and the overall management of the RFI.
- C. The RFI Work Plan shall include a Quality Assurance Project Plan. The Quality Assurance Project Plan shall present the policies, organization, objectives, functional activities, and specific quality assurance and quality control activities designed to achieve the data quality goals of the RFI. It shall include the RFI objectives, sampling procedures, analytical methods, field and laboratory quality control samples, chain-of-custody procedures and data review, validation, and reporting procedures.
- D. The Permittee shall prepare and maintain a Health and Safety Plan during the project that assures the RFI activities are conducted in a manner that is protective of human health and the environment.
- E. Due to the complexity of defining the extent of contamination, the Permittee may be required to use a phased approach that requires the submittal of supplemental RFI Work Plans.

- F. The Department will review the RFI Work Plan(s) in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. The Permittee shall complete implementation in accordance with the schedules contained in the approved plan(s).

VI. RCRA Facility Investigation (RFI) Report

- A. The Permittee shall submit a RFI Report to the Department and the EPA according to the schedule contained in the approved RFI Work Plan set forth in Corrective Action Condition V. The RFI Report shall present all information gathered under the approved RFI Work Plan along with a brief facility description and map showing the property boundary and all SWMUs/AOCs. The RFI Report must contain adequate information to support further corrective action decisions at the facility. Information contained in the RFI Report shall be presented in a format that is consistent with Section 5 of the most recent version (currently May 1989) of the EPA Publication entitled, RCRA Facility Investigation Guidance; EPA 530/SW-89-031.
- B. The RFI Report shall provide an interpretation of the RFI information gathered, supported with documentation, to enable the Department to determine whether additional stabilization and/or a CMS may be necessary.

The RFI Report shall describe the procedures, methods, and results of all Investigations of SWMUs/AOCs and associated releases, including, but not limited to, the following, as appropriate:

1. Characterization of the nature, concentration(s), horizontal and vertical extent, and direction/rate of movement of releases from SWMUs/AOCs at the facility;
2. Characterization of the environmental setting of the facility, including:
  - a. Hydrogeological conditions;
  - b. Climatological conditions;
  - c. Soil and bedrock characteristics;
  - d. Surface water and sediment quality; and
  - e. Air quality and meteorological conditions.

3. Characterization of SWMUs/AOCs from which releases have been or may be occurring, including unit and waste characteristics;
  4. Descriptions of human and environmental receptors and associated risks to the receptors which are, may have been, or, based on site-specific circumstances, could be exposed to release(s) from SWMUs/AOCs;
  5. Assessment of potential risks to the human and environmental receptors exposed to release(s) from SWMUs/AOCs;
  6. Extrapolations of future contaminant movement including description of contaminant fate and transport mechanisms, and pathways for human and environmental exposure;
  7. Laboratory, bench-scale, pilot-scale and/or appropriate tests or studies to determine the feasibility or effectiveness of treatment technologies, or other technologies that may be appropriate in implementing remedies at the facility;
  8. Statistical analyses to aid in the interpretation of data;
  9. Results of any interim/stabilization measures previously implemented; and
  10. Evaluation of data quality which may affect the nature and scope of a CMS as well as the evaluation of corrective measures alternatives thereunder (e.g., identification of any potential bias in the RFI data, and documentation of its precision, accuracy, representativeness, completeness, comparability, validation, etc.)
- C. The Department will review the RFI Report in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. After review of the RFI Report, if the Department determines that the objectives of the RFI have not been met, the Department may require additional investigation. Upon approval of the RFI Report by the Department, the Department shall advise the Permittee as to the next step in the corrective action process that may include submittal of a CMS Work Plan pursuant to Corrective Action Condition VII.

VII. Corrective Measures Study (CMS) Work Plan

- A. If the Department determines that there has been a release of hazardous waste and/or hazardous constituents from a SWMU and/or AOC that may present a threat to human health or the environment, the Department may require a CMS and will notify the Permittee in writing of this decision. This notice will identify the hazardous constituent(s) of concern and may specify remedial alternatives to be evaluated by the Permittee during the CMS.
- B. The Department may require the Permittee to evaluate, as part of the CMS, one or more specific potential remedies. These remedies may include a specific technology or combination of technologies that, in the Department's judgment, may be capable of achieving standards for protection of human health and the environment.
- C. The Permittee shall submit a CMS Work Plan to the Department and the EPA within 45 days of notification of the requirement to conduct a CMS. The CMS Work Plan shall be consistent with guidance contained in the EPA document entitled: RCRA Corrective Action Plan (Final), May 1994, OSWER Directive 9902.3-2A.

At a minimum, the CMS Work Plan shall provide the following information and shall contain a schedule for implementation of the work plan which is predicated on the date of Departmental approval of the plan:

- 1. A description of the general approach to investigating and evaluating potential remedies;
- 2. A definition of the specific objectives of the study;
- 3. A description of the remedies which will be studied;
- 4. A description of those potential remedies that were preliminarily considered, but were dropped from further consideration including the rationale for elimination;
- 5. The specific plans for evaluating remedies to ensure compliance with remedy standards;
- 6. The schedules for conducting the study and submitting a CMS Report;

7. The proposed format for the presentation of information; and
  8. Laboratory, bench-scale, pilot-scale and/or appropriate tests or studies to determine the feasibility or effectiveness of treatment technologies, or other technologies that may be appropriate in implementing remedies at the facility.
- D. The Department will review any CMS Work Plan required by this Permit in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. The Permittee shall initiate and complete implementation of the plan in accordance with the schedule contained in the approved plan.

#### VIII. Corrective Measures Study (CMS) Report

- A. The Permittee shall submit a CMS Report to the Department and the EPA according to the schedule contained in the approved CMS Work Plan. The CMS Report shall present all information gathered under the approved CMS Work Plan and shall be consistent with guidance contained in the EPA document entitled, RCRA Corrective Action Plan (Final), May 1994, OSWER Directive 9902.3-2A.

The CMS Report shall summarize the results of the investigations for each remedy studied and of any bench-scale or pilot tests conducted. The CMS Report shall include, but not be limited to, the following information:

1. Evaluation of performance, reliability, ease of implementation, and potential impacts of each remedy studied, including safety impacts, cross media impacts, and control of exposure to any residual contamination;
2. Assessment of the effectiveness of each remedy in achieving adequate control of sources and cleanup of the hazardous waste or hazardous constituents released from the SWMU(s)/AOC(s);
3. Assessment of the time required to begin and complete each remedy;
4. Estimation of the costs of implementing each remedy;
5. Recommendation of remedy and rationale for selection; and

6. Assessment of institutional requirements, such as state or local permit requirements, or other environmental or public health requirements which may substantially affect implementation of the remedy.
- B. The CMS Final Report shall contain adequate information to support the Department in the remedy approval decision-making process.
- C. The Department will review the CMS Final Report in accordance with the procedures set forth in Review and Approval Procedures, Corrective Action Condition XIII. Upon approval thereof by the Department, the Department will approve a final remedy as specified in Corrective Action Condition IX.

IX. Final Remedy Approval

Following the approval of the CMS Final Report or equivalent, the Department will prepare a Statement of Basis summarizing the corrective measures alternatives that were evaluated by the Permittee, including justification for the proposed final remedy selected by the Department.

Following preparation of the Statement of Basis by the Department, a Permit modification will be initiated pursuant to 40 CFR 270.41 or 270.42(c), as applicable, to implement the final remedy.

Upon completion of the public participation activities associated with the Permit modification to implement the proposed final remedy, the Department will approve a final remedy that will: 1) be protective of human health and the environment; 2) control and/or eliminate the source(s) of contaminants so as to reduce or eliminate, to the maximum extent practicable, further contaminant releases, exposures or migration that might pose a threat to human health and the environment; and 3) meet all applicable federal, state, and local laws and regulations.

X. Annual Progress Reports

- A. If action(s) become necessary pursuant to the corrective action conditions of this Permit, the Permittee shall submit to the Department and the EPA signed Annual Progress Reports summarizing all permitted corrective action activities undertaken during each calendar year. Each Annual Progress Report shall be due to the Department by March 1 of each calendar year for the preceding calendar year.

The Annual Progress Reports shall continue to be submitted until such time as the Permittee's corrective action activities (including any long-term operation, maintenance and monitoring activities) are complete. The Annual Progress Reports shall include the following information for the time period being reported:

1. A description of the work completed;
  2. Summaries of all findings, including summaries of laboratory data;
  3. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems;
  4. Projected work for the next reporting period; and
  5. Any instances of noncompliance with the corrective action requirements of this Permit not otherwise required to be reported elsewhere in this Permit.
- B. If the Department determines that further corrective action is required pursuant to Corrective Action Conditions II. through X., the frequency of submittal of progress reports may increase. If an increase in reporting frequency is necessary, the Department will provide written notification of the new reporting frequency to the Permittee.
- As part of any additional corrective action activities undertaken pursuant to this Permit, detailed technical information required to be submitted as part of interim/stabilization measures, RFI and/or CMS reports and work plans need not be reproduced as part of the Permittee's Progress Reports.
- C. Copies of other reports (e.g., inspection reports), information or data shall be made available to the Department and the EPA upon request.

#### XI. Supplemental Data

All raw data, such as laboratory reports, drilling logs, bench-scale or pilot-scale data, and other supporting information gathered or generated during activities undertaken pursuant to this Permit shall be maintained by the Permittee during the term of this Permit, including the term of any re-issued permits.

#### XII. Financial Assurance for Corrective Action

- A. Within 120 days after this Permit has been modified to include a final remedy, the Permittee shall demonstrate continuous compliance with the financial assurance requirements in effect at that time for corrective action being performed under state law. The effective financial assurance requirements for corrective action shall be consistent with and/or substantially equivalent to that specified in either final RCRA Subpart S corrective action regulations or 40 CFR Part 264

DRAFT



Subpart H, as incorporated by reference in 10 CSR 25-7.264. The amount of financial assurance shall be based on the Permittee's cost estimate for the approved final remedy as contained in the approved CMS Final Report or equivalent.

- B. Annually, by March 1, the Permittee shall adjust the corrective action cost estimate to account for inflation in accordance with 40 CFR 264.142(b) and any other changes in the costs associated with the implementation, operation, maintenance, and monitoring of the approved final remedy. If the cost estimate increases, documentation of adequate financial assurance for that increase shall be submitted to the Department within 60 days following the increase in the cost estimate.

### XIII. Review and Approval Procedures

Following submission of any plan or report pertaining to corrective action activities, the Department will review and either approve or disapprove the plan or report in writing.

If the Department does not approve the plan or report, the Department will notify the Permittee in writing of the deficiencies in the plan or report and specify a due date for submittal of a revised plan or report.

If the Department does not approve the revised plan or report, the Department may modify the plan or report and notify the Permittee of the modifications. The plan or report as modified by the Department shall be the approved plan or report.

If the Permittee disagrees with any Department-initiated plan or report modifications, and a mutually acceptable resolution of such modifications cannot be informally reached, the Permittee may file any appeal of the Department-initiated modifications in accordance with Section 260.395.11, RSMo, and 10 CSR 25-8.

### XIV. Contingent and Planned Activities

- A. The Permittee shall comply, as necessary, with the schedule(s) for planned activities as specified in the Standard and General Permit Conditions of this Permit.
- B. The Permittee shall comply, as necessary, with the schedule(s) for contingent corrective action activities as specified in the Corrective Action Conditions of this Permit.

XV. Submittal of Required Information

- A. The Permittee shall submit three copies of all reports, documents, or plans/specifications required under the terms of this Permit to:

Chief, Permits Section  
Missouri Department of Natural Resources  
Hazardous Waste Program  
1738 East Elm (lower level)  
P.O. Box 176  
Jefferson City, MO 65102-0176

- B. The Permittee shall submit two copies of all reports, documents, or plans/specifications required under the terms of this Permit to:

Chief, RCRA Corrective Action & Permits Branch  
United States Environmental Protection Agency Region VII  
Air, RCRA and Toxics Division  
901 North 5th Street  
Kansas City, KS 66101

FACILITY SUBMISSION SUMMARY

TABLE III - Summary of the Submittal Requirements Pursuant to this Permit

SUBMITTAL REQUIREMENTS	DUE DATE	PERMIT CONDITION
Consolidated Permit Application	Within 60 calendar days of effective date of this permit.	Schedule of Compliance Item I.A.
Certification that Permittee has read and understands this Permit	Within 60 calendar days of effective date of this permit.	Schedule of Compliance Item I.B.
Check or money order for \$9000 and all outstanding engineering review costs.	Within 60 calendar days of effective date of this permit.	Schedule of Compliance Item I.C. & D.
The Permittee shall update the facility's financial assurance instrument to reflect the cost estimate located in the approved Permit application.	Within 60 calendar days after the effective date of this Permit.	Schedule of Compliance Item II.
The Permittee shall submit a plan for a security fence around the active portion of the facility	Within 60 calendar days after the effective date of this Permit.	Schedule of Compliance Item IV.
The Permittee shall construct a fence around the active portion of the facility and modify financial assurance to cover trailer staged hazardous waste	Within one calendar year after the effective date of this Permit.	Schedule of Compliance Items V. and VI.
RCRA Facility Assessment	Within five calendar years after the effective date of this Permit.	Corrective Action Condition I.A.
Quarterly Reports with information required by 10 CSR 25-5.262(2)(D) and 10 CSR 25-7.264(2)(E)	Within 45 calendar days after the end of each quarter.	Standard Permit Condition I.
Biennial Report with information required by 40 CFR 264.75	March 1 of each even numbered calendar year.	General Permit Condition I.

Table IV - Summary of the Contingent Corrective Action Submittal Requirements

CONTINGENT SUBMITTAL REQUIREMENTS	DUE DATE	CORRECTIVE ACTION CONDITION
Written Notification of Newly Identified SWMU(s) and AOC(s)	No later than 15 days after discovery.	II.A.
SWMU/AOC Assessment Work Plan	Within 30 calendar days of notice by the Department that a work plan is required.	II.B.
SWMU/AOC Assessment Report	In accordance with the schedule in the Assessment Work Plan.	II.D.
Written Notification of Newly Identified Releases from SWMU(s) and AOC(s)	No later than 15 days after discovery.	III.A.
Newly Identified Release Work Plan	Within 30 calendar days of notice by the Department that a work plan is required.	III.B.
Newly Identified Release Report	In accordance with the schedule in the approved Newly Identified Release Work Plan.	III.D.
Stabilization Notification	Within 24 hours of discovery of need for stabilization.	IV.A.
Stabilization Not Effective Notification	Within ten calendar days of determination by Permittee.	IV.C.
RCRA Facility Investigation (RFI) Work Plan	Within 60 calendar days of notice that the Plan is required.	V.A.
RCRA Facility Investigation (RFI) Report	In accordance with the schedule in the approved RFI Work Plan.	VI.A.
Corrective Measures Study (CMS) Work Plan	In the 45 calendar days of notice that the plan is required.	VII.C.
Corrective Measures Study (CMS) Report	In accordance with the schedule in the approved CMS Work Plan.	VIII.A.

CONTINGENT SUBMITTAL REQUIREMENTS	DUE DATE	CORRECTIVE ACTION CONDITION
Final Remedy Approval	In accordance with the schedule in the implementation Permit modification.	IX.
Annual Progress Reports	March 1 of each calendar year.	X.
Financial Assurance for Corrective Action	Within 120 days after the final remedy Permit modification.	XII.A.
Update of Financial Assurance for Corrective Action	March 1 of each calendar year.	XII.B.